3'-5' Synthesis With DMT Protection

= Solid support/growing oligonucleotide

3'-5' Synthesis With Carbonate Protection

Comparison of Deprotection Mechanisms

FIGURE 3A

FIGURE 3B

5'-Arco-3'-Amidite Synthesis

- (i) 4-Chlorophenyl chloroformate/pyridine/2 h;
- (ii) (iPr₂N)₂PO(CH₂)₂CN/tetrazole/CH₂Cl₂/1 h.

5'-Arco-3'-Amidite Synthesis

DMTO B (i)

$$iPr_2N$$
 P O ArcoO

$$B = a A(N^6-Bz)$$
 $b C(N^4-Fmoc)$
 $c G(N^2-ibu)$
 $d T$

- (i) 4-Chlorophenyl chloroformate/pyridine/2 h;
- (ii) 3% Trichloroacetic acid/CH₂Cl₂/₃ min;
- (iIi) $(iPr_2N)_2PO(CH_2)_2CN/tetrazole/CH_2Cl_2/1 h$.

S . . . 2

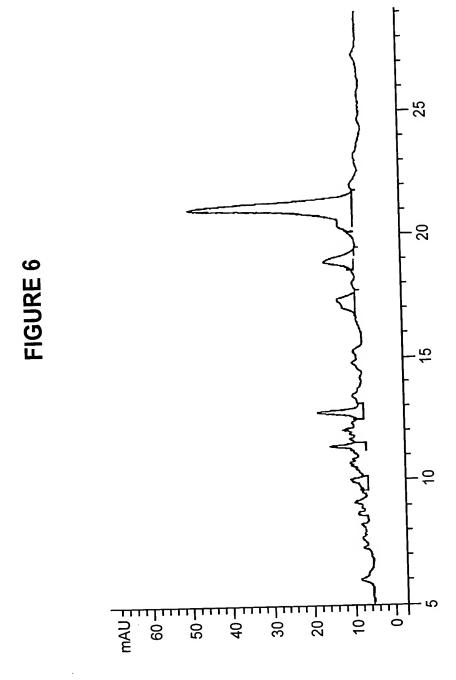


FIGURE 7

